

DEC STD 066-1 Technical Domains in the Product Development Process

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ABSTRACT: This document defines the role and responsibilities of technical domains in the design and development process in Digital.

APPLICABILITY: This standard is mandatory for Technical Domain Managers within Digital.

STATUS: APPROVED 19-Nov-1992; use VTX SMC for current status.

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1 INTRODUCTION

Digital Equipment Corporation's policy is to design, develop, manufacture, and maintain products that are competitive and compliant in all markets in which the company has chosen to do business.

To be effective in implementing technology, architectures, regulations, and the like, Engineering identifies specific individuals with expertise to be the company focus for that subject. These individuals are identified as Technical Domain Managers.

As the focus on a subject for the company, the Technical Domain Manager holds responsibilities above and beyond that associated within his or her specific development group.

1.1 PURPOSE

This document lists the technical domains that have been established in the Engineering development process. It defines the general expectations of individuals responsible for managing those domains with regard to standards, specifications, and similar documentation in their area of expertise. There are further responsibilities in the area of waivers. These are described in *DEC STD 066-2 Waivers to Digital Design Standards*.

1.2 SCOPE

This document defines general responsibilities of a Technical Domain Manager. It also contains a directory of Technical Domain Managers and a list of Digital standards that are associated with each technical domain.

2 TECHNICAL DOMAIN

A technical domain is an area of specified technical activity and knowledge. It is influenced by external standards and regulations, by industry or market expectations, and/or by de facto standards. It provides a central focus of expertise, for the specified technical area, across all products.

2.1 RESPONSIBILITIES OF TECHNICAL DOMAIN MANAGERS

A Technical Domain Manager is responsible for providing guidance and maintaining technical expertise on the worldwide requirements of his or her subject area for the Corporation.

The product or process requirements of the domain are communicated to the Corporation in the form of Digital standards. Supporting documents and publications may also be used. The Technical Domain Manager is responsible to provide guidance where requested; this is normally funded by the requester.

A Technical Domain Manager is responsible for ensuring and coordinating Digital's worldwide participation in the appropriate external forums for the subject area.

With the exception of requests for guidance, the Technical Domain Manager is responsible for ensuring that the necessary funding is available to carry out the above work. This responsibility includes funding development and, at the minimum, an annual review of

Digital standards in his or her area to ensure these standards reflect current worldwide requirements.

The Technical Domain Manager is not authorized to grant waivers but is responsible for providing recommendations to the waiver process as defined in DEC STD 066-2.

2.2 TECHNICAL DOMAIN MANAGERS

The following is a list of the current Technical Domain Managers within Digital.

AC Power Requirements and Entrance

John Cross	DCPWR::CROSS	MLO4-2/T84	223-2345
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Product Environmental Requirements

Frank Grimaldi	EMDS::GRIMALDI	MLO6B-2/T13	223-4177
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Electromagnetic Compatibility

Peter Boers	EMIRFI::BOERS	MLO6-1/U30	223-5452
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Product Acoustics

Bob Lotz	EMDS::LOTZ	MLO6B-2/T13	223-5774
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Product Ergonomics

Charles Abernethy	EMDS::ABERNETHY	MLO11-3/L12	223-5641
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Product Marking/Labeling

Frank Cornine	EMDS::CORNINE	MLO8-2/L13	223-4466
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Direct Connect Telecommunications

Remi Lisee	LESREG::LISEE	MLO6-1/U30	223-4163
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Regulated Materials

Bob Johnson	MILPND::RJOHNSON	MLO4-2/T65	223-4424
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Product Safety

Bob Johnson	MILPND::RJOHNSON	MLO4-2/T65	223-4424
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Unified Numbering

Dave Crowley	MILPND::CROWLEY	MLO4-2/H14	223-8504
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Quality Assurance Systems

Bob Kennedy	MEMIT::BKENNEDY	MLO1-5/T55	223-7196
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Waste Management

Karen Salveta	AUNTB::SALVETA	GNO	367-6283
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3 LIST OF ASSOCIATED DIGITAL STANDARDS

The following Digital standards are associated with Technical Domains within Digital.

NOTE

The Technical Domain Manager is not always the standard owner for these standards.

Additional standards may be in development; use SMC VTX for the latest standards and revisions.

Standards and Methods Control
\$ VTX SMC, DTN: 234-4423, or JOKUR::SMC

Please provide your name, mailstop, badge number, cost center, and ENET node when ordering.

Table 1: AC Power Requirements and Entrance

DEC STD 002-0	<i>AC Power Wiring, Safety Earth Grounding, Plugs, and Receptacle Information and Requirements</i>
DEC STD 002-1	<i>Power Controller Units - General Requirements</i>
DEC STD 122-0	<i>AC Power Line Standard: Design Requirements and Guidelines</i>
DEC STD 122-1	<i>AC Power Line Standard - Measurement of AC Power Parameters</i>
DEC STD 123-0	<i>Power Control Bus Standard</i>

NOTE

Refer to EL-00002-TB *International Power Cables and Connectors* for information on the selection of power supply cords and cord sets for worldwide use.

Table 2: Product Environmental Requirements

DEC STD 102-0	<i>Environmental Standard for Computers and Peripherals - General Test Requirements</i>
DEC STD 102-1	<i>Environmental Standard for Computers and Peripherals - Temperature, Humidity, and Altitude Test Requirements</i>
DEC STD 102-2	<i>Environmental Standard for Computers and Peripherals - Mechanical Shock and Vibration Test Requirements</i>
DEC STD 102-3	<i>Physical Stability Requirements During Shipping and Handling</i>
DEC STD 120-0	<i>Product Thermal Design Standard: Design Requirements</i>

Table 3: Electromagnetic Compatibility

DEC STD 103-0	<i>Electromagnetic Compatibility (EMC) - Overview and Process Requirements</i>
DEC STD 103-1	<i>Electromagnetic Compatibility (EMC) - Documentation and Approval Process</i>
DEC STD 103-3	<i>Electromagnetic Compatibility (EMC) - Electromagnetic Interference (EMI) Requirements</i>
DEC STD 103-4	<i>Electromagnetic Compatibility (EMC) - Electromagnetic Susceptibility (Immunity)</i>
DEC STD 103-5	<i>Electromagnetic Compatibility (EMC) - Hardware Design Requirements for Electrostatic Discharge (ESD) Immunity</i>
DEC STD 103-7	<i>Electromagnetic Compatibility (EMC) - Quality Process</i>

Table 4: Product Acoustics

DEC STD 102-4	<i>Environmental Standard for Computers and Peripherals - Product Acoustic Noise Measurement</i>
DEC STD 104-0	<i>Product Acoustic Noise Limits</i>

Table 5: Product Ergonomics

DEC STD 105-0	<i>Display Workstation Ergonomics (Human Factors): Design Criteria</i>
EL-00105-01	<i>Listing of Legal Status of Ergonomic Standards</i>
EL-00105-02	<i>Display Workstation Ergonomics (Human Factors): Design Guidelines</i>

Table 6: Product Marking/Labeling

DEC STD 047-0	<i>Bar Code Symbolology Criteria</i>
DEC STD 047-1	<i>Bar Code: Product and Shipping Carton/Container Labelling</i>
DEC STD 178-0	<i>Digital Identification Marking Requirements - Introduction</i>
DEC STD 178-1	<i>Digital Marking Requirements for Piece Parts</i>
DEC STD 178-2	<i>Digital Marking Requirements for Subassemblies: Field Replaceable Units (FRU) and Non-Field Replaceable Units</i>
DEC STD 178-3	<i>Digital Marking Requirements for Completed Products Intended to be Sold</i>
DEC STD 178-4	<i>Shipping Container Marking Requirements for Finished Goods</i>
DEC STD 178-5	<i>Marking Symbolology</i>
DEC STD 178-6	<i>Marking and Labeling Requirements for Diagnostic Tools and Diagnostic Software</i>
DEC STD 178-7	<i>Translations</i>
DEC STD 178-8	<i>General Shipping Documentation and Container Labeling Requirements for Finished Goods Intended to be Shipped to Customers</i>
DEC STD 178-9	<i>Shipping Container Marking Requirements for Goods in Process</i>
DEC STD 178-10	<i>Design Requirements for Product Markings</i>

Table 7: Direct Connect Telecommunications

DEC STD 052-0	<i>Operational Requirements for Serial Terminals and Computer Interfaces Operating as DTEs Connected to EIA RS-232-C or CCITT V.28 Modems</i>
DEC STD 052-1	<i>Operational Requirements for Serial Terminals and Serial System Interfaces Operating as DTEs Connected to EIA/TIA-232-E or CCITT V.28</i>
DEC STD 052-2	<i>Electrical Requirements for Binary Interfaces that Conform to EIA RS-232-C or CCITT V.28 Modems</i>
DEC STD 052-3	<i>Automatic Calling and/or Answering Equipment on the GSTN Using the 100 Series Interchange Circuits</i>
DEC STD 052-4	<i>Local Direct Connection (no Modem) for Serial Asynchronous Terminals and System Interfaces</i>
DEC STD 053-0	<i>Interface Between Data Circuit-Termination Equipment and Public Switched Telephone Network (PSTN) in the U.S. and Canada</i>
DEC STD 053-1	<i>Interface Between Data Circuit-Terminating Equipment and the Public Switched Telephone Network (PSTN)—Worldwide</i>

Table 8: Regulated Materials

DEC STD 136-0	<i>Digital Policy on Government-Regulated Materials in Digital Products</i>
DEC STD 136-1	<i>Digital Policy on Government-Regulated Materials in Digital's Manufacturing Processes</i>
DEC STD 136-3	<i>The Introduction and Review Process for Digital Chemical Products</i>

Table 9: Product Safety

DEC STD 119-0	<i>Digital Product Safety - Introduction and General Requirements</i>
DEC STD 119-1	<i>Digital Product Safety - Design Criteria</i>
DEC STD 119-2	<i>Digital Product Safety - Test Procedures</i>
DEC STD 119-5	<i>Process for Design, Evaluation, Testing, and Certification of Hardware Products to Product Safety Requirements</i>
DEC STD 080-0	<i>Digital Product Safety - Industrial Control Equipment - Introduction and General Requirements</i>
DEC STD 080-1	<i>Digital Product Safety Standard for Industrial Control Equipment - Design Criteria</i>
DEC STD 080-2	<i>Digital Product Safety Standard for Industrial Control Equipment - Test Methods</i>

Table 10: Unified Numbering

DEC STD 012-0	<i>Part Identification Standard</i>
DEC STD 012-1	<i>Documentation Identification Conventions Including Mnemonic Codes</i>
DEC STD 012-2	<i>Unified Numbering Code for Part Identifier Class Codes</i>
DEC STD 012-3	<i>Packaged System Identification Standard</i>
DEC STD 012-4	<i>Unified Numbering Code (UNC) - Software Numbering Conventions</i>
DEC STD 012-5	<i>Unified Numbering Code (UNC) - Manufacturing Control Part Numbering Conventions</i>
DEC STD 012-6	<i>Computer Special Systems (CSS) Numbering Conventions</i>
DEC STD 012-7	<i>Unified Numbering Code - 74-Class Part Numbering Conventions and Assignment Procedures</i>
DEC STD 012-8	<i>Field Service Part Identifier Conventions and Assignment Procedures</i>
DEC STD 012-9	<i>Unified Numbering Code - 94-Class Tool Numbering Conventions and Assignment Procedures</i>
DEC STD 012-10	<i>Conventions Used to Assign Part Identifiers With Significance in Part Classes 11, 15, 19, 21, and 91</i>
DEC STD 012-11	<i>Unified Numbering Code for Vendor Equipment Services (VES)</i>

Table 11: Quality Assurance Systems

DEC STD 017-0	<i>General - Quality Assurance System Requirements</i>
DEC STD 017-1	<i>ISO 9001 - Quality Systems - Model for Quality Assurance in Design/Development, Production, Installation and Servicing</i>
DEC STD 017-2	<i>ISO 9002 - Quality Systems - Model for Quality Assurance in Production and Installation</i>
DEC STD 017-3	<i>ISO 9003 - Quality Systems - Model for Quality Assurance in Final Inspection and Test</i>
DEC STD 203-0	<i>General Requirements for Technical Evaluation Laboratories</i>

APPENDIX A REFERENCED DOCUMENTS

A.1 Digital Documents, EL-Class

Document Number	Document Title
EL-00002-TB	<i>International Power Cables and Connectors</i>
EL-00066-02	<i>DEC STD 066-2 Waivers to Digital Design Standards</i>

A.2 Ordering Information

Use VTX SMC to order copies of EL-class Digital documents from Standards and Methods Control. Send distribution questions to JOKUR::SMC or call DTN: 234-4423.

APPENDIX B RELATED DOCUMENTS

B.1 Digital Documents, EL-Class

Document Number	Document Title
EL-00001-00	<i>DEC STD 001-0 Management of Technical Standards and Related Documentation</i>
EL-00060-00	<i>DEC STD 060-0 Design of Hardware Products to National and International Regulations and Standards, Policies and Procedures</i>
EL-00062-00	<i>DEC STD 062-0 Product Submittal to Regulatory Agencies</i>
EL-00064-00	<i>DEC STD 064-0 Compliance with International Language Requirements</i>
EL-00066-00	<i>DEC STD 066-0 Digital Design Standards</i>

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